

LPX SERIES-High Rate / UPS

LPX12-200 (12V, 675.8 WPC, 202.4AH)

Specification

Nominal Voltage	12V
Watts/Cell(15min Rate)	675.8 Watts/Cell at 1.67V/cell
Dimension	Length 522±3mm (20.55 inches)
	Width 240±3mm (9.45 inches)
	Container Height 218±3mm (8.58 inches)
	Total Height (with Terminal) 224±3mm (8.81 inches)
Approx Weight	Approx 62.6 kg (138.0 lbs)
Terminal	T11
Container Material	ABS to UL94-HB (Flame retardant UL94V-0 available)
Rated Capacity	206.0 AH/20.6A (10hr, 1.80V/cell, 25°C/77°F)
	202.4 AH/25.3A (8hr, 1.75V/cell, 25°C/77°F)
	174.5 AH/34.9A (5hr, 1.75V/cell, 25°C/77°F)
	158.4 AH/52.8A (3hr, 1.75V/cell, 25°C/77°F)
	136.0 AH/136.0A (1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	2000A (5s)
Internal Resistance	Approx 2.7mΩ
Operating Temp. Range	Discharge : -20~60°C (-4~140°F)
	Charge : 0~50°C (32~122°F)
	Storage : -20~60°C (-4~140°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cycle Use	Initial Charging Current less than 60.0A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
	No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C
Standby Use	
Capacity affected by Temperature	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	Leoch LPX series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.



Applications

- ◆ Uninterruptable Power Systems (UPS)
- ◆ High power backup supply
- ◆ Emergency power supply
- ◆ Critical DC Power Systems
- ◆ Critical Alarm Systems
- ◆ Security Surveillance Systems
- ◆ Emergency lighting
- ◆ Electric starting
- ◆ Railway signal back-up



Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	321.6	277.6	237.0	181.6	138.1	113.8	66.7	48.7	38.5	32.2	28.6	23.9	20.0	10.3
1.80V/cell	351.6	296.8	246.6	190.8	143.2	120.8	71.1	51.7	40.6	34.0	30.1	25.0	20.6	10.7
1.75V/cell	375.6	314.1	262.8	198.4	148.3	124.0	72.9	52.8	41.8	34.9	30.7	25.3	20.9	10.8
1.70V/cell	409.2	335.4	274.8	204.8	153.3	128.0	74.2	54.1	42.7	35.5	31.3	25.5	21.2	10.9
1.67V/cell	439.2	359.5	288.0	210.4	156.3	132.0	75.7	54.7	43.5	36.1	31.7	25.8	21.4	11.0
1.60V/cell	459.6	374.3	296.4	216.0	160.3	136.0	77.0	55.9	44.3	36.6	32.1	26.0	21.5	11.1

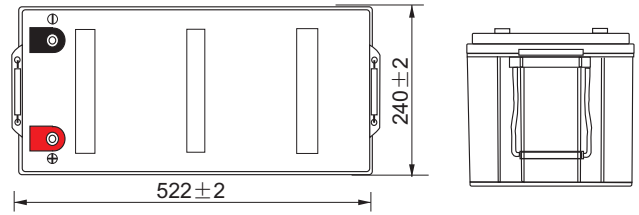
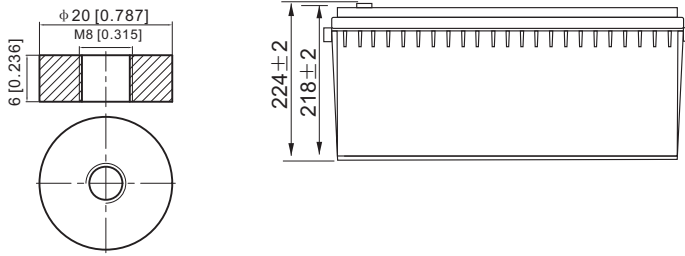
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	609.4	536.6	461.7	356.1	272.6	225.7	132.7	97.2	77.1	64.7	57.6	48.3	40.5	20.9
1.80V/cell	661.4	570.2	477.7	372.4	281.1	238.5	141.1	102.9	81.0	68.2	60.5	50.4	41.6	21.6
1.75V/cell	701.2	599.7	506.7	385.7	290.2	244.2	144.2	104.8	83.2	69.6	61.5	50.8	41.9	21.7
1.70V/cell	757.8	636.2	527.1	396.5	299.2	251.3	146.3	107.0	84.8	70.7	62.4	51.0	42.4	21.8
1.67V/cell	805.5	675.8	548.4	405.0	303.5	258.1	148.8	108.0	86.1	71.8	63.2	51.4	42.7	22.0
1.60V/cell	834.2	697.8	559.6	412.6	309.3	264.7	150.7	109.8	87.4	72.5	63.8	51.8	43.0	22.1

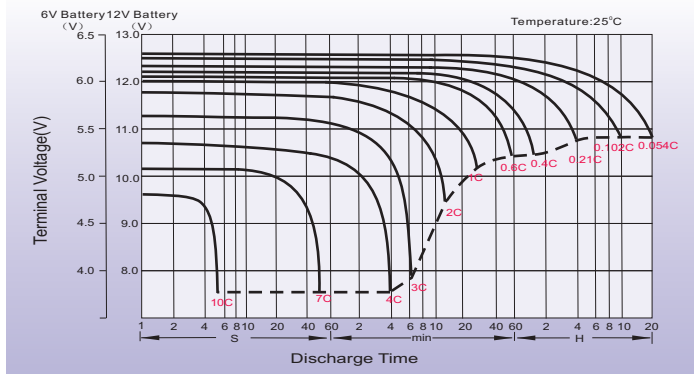
Dimensions

T11 Terminal

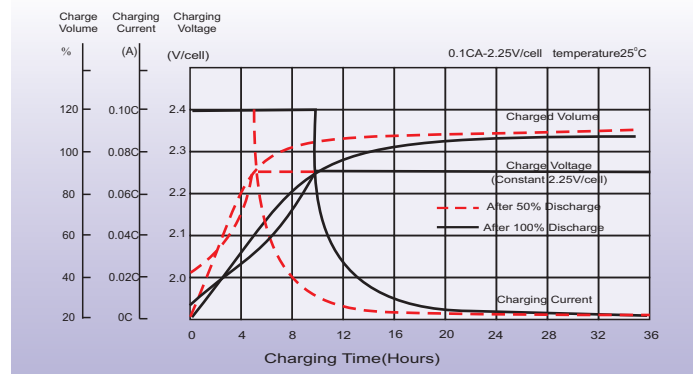
Unit: mm [inches]



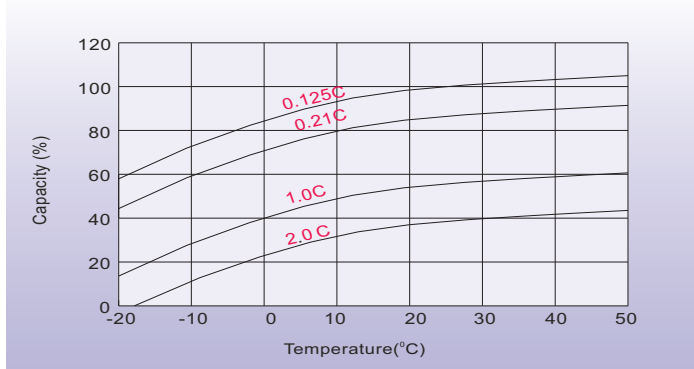
Discharge Characteristics



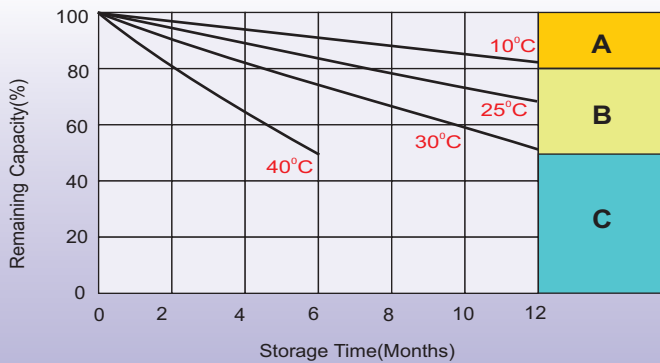
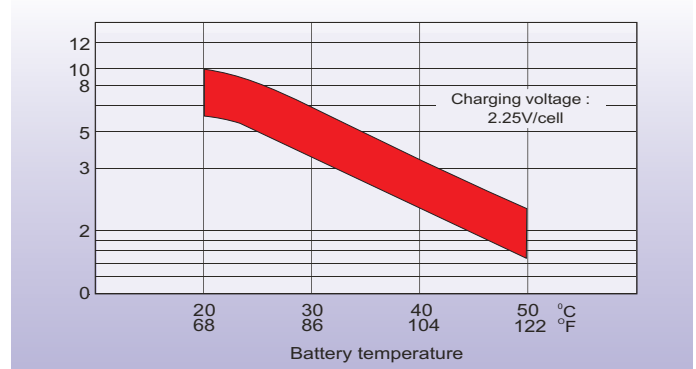
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics

- A** No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below:
 1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
 2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
 3. Charged for 8-10 hours at limited current 0.05CA.
- C** Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

Sales Office

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